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OCT 26 2005

SCIENTIFIC-ATLANTA, INC. LEGAL DEPARTMENT

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
SCIENTIFIC-ATLANTA, INC.
Intellectual Property Department
Attn. Lafferty, Wm. Brook
5030 Sugarloaf Parkway
Lawrenceville, GA 30044
UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

		(PC)	Γ Rule 44.1)
	Date of mailing (day/month/year)	18/10	0/2005
Applicant's or agent's file reference			
F-8024-PC	FOR FURTHER ACT	LION	See paragraphs 1 and 4 below
International application No.	International filing date		
PCT/US2005/024706	(day/month/year)	08/07	7/2005
Applicant			
SCIENTIFIC-ATLANTA, INC.			
The applicant is bounded at the data of interesting to a such			

. [X]	Authority have been established and are transmitted herewith.
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35
	For more detailed instructions, see the notes on the accompanying sheet.
2.	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Shantisaroop Pherai

ATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220		
F-8024-PC	ACTION as wel	ll as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US2005/024706	08/07/2005	14/07/2004		
Applicant				
SCIENTIFIC-ATLANTA, INC.				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Autansmitted to the International Bureau.	hority and is transmitted to the applicant		
This International Search Report consists	of a total of sheets.			
X It is also accompanied by	a copy of each prior art document cited in this	report.		
Basis of the report a. With regard to the language, the language in which it was filed, unlied.	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the		
The international this Authority (Rul	search was carried out on the basis of a transle 23.1(b)).	lation of the international application furnished to		
b. With regard to any nucleo	otide and/or amino acid sequence disclosed	in the international application, see Box No. I.		
2. Certain claims were foul	nd unsearchable (See Box II).			
3. Unity of invention is lack	xing (see Box III).			
4. With regard to the title ,				
X the text is approved as su	bmitted by the applicant.			
the text has been establish	ned by this Authority to read as follows:			
5. With regard to the abstract,				
X the text is approved as su	• • • • • • • • • • • • • • • • • • • •			
the text has been establish may, within one month fro	ned, according to Rule 38.2(b), by this Authori m the date of mailing of this international sear	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.		
6. With regard to the drawings ,				
a. the figure of the drawings to be p	a. the figure of the drawings to be published with the abstract is Figure No			
as suggested by t	ne applicant.			
	s Authority, because the applicant failed to sug			
	s Authority, because this figure better characte	erizes the invention.		
b. none of the figures is to be	e published with the abstract.			

INTEPNATIONAL SEARCH REPORT

national Application No PCT/US2005/024706

According to International Potent Classification (IPC) or to both national classification and IPC S. PELDS SEARCHED Minimum occumentation searched (desirification system followed by classification symbols) IPC 7 H04N Documentation searched other than minimum documentation to the extent that seach documents are included in the fields searched Electronic data base consulted during the informational search (name of data base and, where practical, search terms used) EPO-Internal C.D.COLUMENTS CONSIDERED TO BE RELEVANT Category* Classion of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 595 323 A (SONY CORPORATION) 4 May 1994 (1994–05-04) 7, 9, 10, 12, 13, 15, 3, 6, 8, 11, 14, 16 column 12, 1 ine 32 - 1 ine 49 column 13, 1 ine 26 - 1 ine 35 column 16, 1 ine 18 - 1 ine 47 column 17, 1 ine 20 - 1 ine 41 figures 5, 8, 10-13 A US 5 329 309 A (DORRICOTT ET AL) 12 July 1994 (1994 (1994–07-12) the whole document A US 4 881 125 A (KRAUSE ET AL) 14 November 1989 (1989–11-14) the whole document Further document stated in the continuation of box C. The continuation that page desired state of the at which is not considered to be of patientice frequence which is catefor to callegate the patientic or at after the international transition of the international i	A. CLASS IPC 7	IFICATION OF SUBJECT MATTER H04N5/76			
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other means "P" document published prior to the international filing date but later than the priority date claimed "A" document member of the same patent family Date of the actual completion of the international search 10 October 2005 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel 4/31 70 240 8040 Tel 21 551 and plant. "A" document member of the same patent family Date of mailing of the international search report 18/10/2005 Authorized officer	citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the				
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel (131, 70) 240, 240 Tr. 21 651 and pl	Date of the a	actual completion of the international search	Date of mailing of the international sear	rch report	
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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (131, 70) 240, 240, Tr. 21,651 and pl	Name and m	nailing address of the ISA	Authorized officer		
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		Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Braga, J		

INTERNATIONAL SEARCH REPORT

Integration on patent family members

national Application No PCT/US2005/024706

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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ATENT COOPERATION TRICTY

From the INTERNATIONAL SEARCHING AUTHORITY

To:		PCT			
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below			
International application No. International filing date PCT/US2005/024706 08.07.2005		International filing date (c 08.07.2005	day/month/year)	Priority date (day/month/year) 14.07.2004	
	national Patent Clas -N5/76	sification (IPC) or	both national classification	and IPC	
Appl SCI	icant ENTIFIC-ATLAN	NTA, INC.			
1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application □ Box No. VIII Certain observations on the international application □ Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to					
	months from the whichever expire	date of mailing	y togetner, where approp of Form PCT/ISA/220 or	oriate, with amendmen before the expiration o	nts, before the expiration of three of 22 months from the priority date,
2	For further option				
3.	Foi luitner detail	s, see notes to f	Form PCT/ISA/220.		

Name and mailing address of the ISA:



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Authorized Officer

Braga, J

Telephone No. +31 70 340-3866



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/024706

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	Box N	lo. I Basis of the opinion					
1.	With r	egard to the language , this opinion has been established on the basis of the international application in neguage in which it was filed, unless otherwise indicated under this item.					
	la	his opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).					
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type	e of material:					
		a sequence listing					
		table(s) related to the sequence listing					
	b. forn	nat of material:					
		in written format					
		in computer readable form					
	c. time	e of filing/furnishing:					
	. 🗖	contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.					
4.	Additio	onal comments:					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3,6,8,11,14,16

No: Claims

1,2,4,7,9,10,12,13,15

Inventive step (IS)

Yes: Claims

3,6,8,11,14,16

No: Claims

1,2,4,7,9,10,12,13,15

Industrial applicability (IA)

Yes: Claims

1-16

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1: EP 0 595 323 A (SONY CORPORATION) 4 May 1994 (1994-05-04) D2: US 5 329 309 A (DORRICOTT ET AL) 12 July 1994 (1994-07-12) D3: US 4 881 125 A (KRAUSE ET AL) 14 November 1989 (1989-11-14)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of **claim 1** is not new in the sense of Article 33(2) PCT.

Document D1 discloses (the references in parentheses applying to this document):

A method for displaying pictures (fig. 11) of a compressed video stream during playback mode operations, said method comprising the steps of:

receiving a compressed video stream (col. 17, lines 5-14; fig. 11, (40)) that includes frame pictures; and

detecting a scan mode indicator (col. 17, lines 24-30) in the compressed video stream, wherein the scan mode indicator indicates whether a progressive scan format was used during the creation of the frame pictures.

3 INDEPENDENT CLAIM 5

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of **claim 5** is not new in the sense of Article 33(2) PCT.

Document D1 discloses (the references in parentheses applying to this document):

A method for displaying pictures (fig. 11) of a compressed video stream during playback mode operations, said method comprising the steps of:

receiving a compressed video stream (col. 17, lines 5-14; fig. 11, (40)) that includes frame pictures;

detecting a scan mode flag in the compressed video stream (col. 17, lines 24-30), wherein the scan mode flag indicates whether a progressive scan format was used during the creation of the frame pictures; and

responsive to detecting the scan mode flag (col. 17, lines 30-41), displaying both interlaced frames of an interlaced frame pair during a playback mode operation if the scan mode flag detected in the compressed video stream indicates that a progressive scan format was used during the creation of the frame pictures.

4 INDEPENDENT CLAIM 9

4.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of **claim 9** is not new in the sense of Article 33(2) PCT.

Document D1 discloses (the references in parentheses applying to this document):

A video decompression system (fig. 11, (40), (50)), comprising:

a memory (fig. 11, (43)) with logic; and

a processor (fig. 11, (46)) configured with the logic to receive a compressed video stream that includes frame pictures and detect a scan mode indicator in the compressed video stream, wherein the scan mode indicator indicates whether a progressive scan format was used during the creation of the frame pictures.

5 INDEPENDENT CLAIM 13

5.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of **claim 13** is not new in the sense of Article 33(2) PCT.

Document D1 discloses (the references in parentheses applying to this document):

A video decompression system (fig. 11, (40), (50)), comprising:

a memory with logic (fig. 11, (43)); and

a processor (fig. 11, (40)) configured with the logic to receive a compressed video stream that includes frame pictures, wherein the processor is further configured with the logic to detect a scan mode flag in the compressed video stream, wherein the scan mode flag indicates whether a progressive scan format was used during the creation of the frame pictures, wherein

the processor (fig. 11, (40)) is further configured with the logic to display both interlaced frames of an interlaced frame pair during a playback mode operation if the scan mode flag detected in the compressed video stream indicates that a progressive scan format was used during the creation of the frame pictures.

6 DEPENDENT CLAIMS 2, 4, 7, 10, 12, 15

Dependent claims 2, 4, 7, 10, 12, 15 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT) because their are either disclosed in D1 or obvious to the man skilled in the art.

7 DEPENDENT CLAIMS 3, 6, 11, 14

The combination of the features of dependent claims 3, 6, 11, 14 are neither known from, nor rendered obvious by, the available prior art. The reasons are as follows:

- a) the additional features of **claim 3** are not disclosed nor made obvious by any of disclores in D1, D2 and D3;
- b) **claim 6** is a method claim corresponding to the apparatus claim 3. The same reasoning as in 7(a) applies, *mutatis mutandis*, to claim 6;

- c) **claim 11** is an apparatus claim corresponding to the apparatus claim 3. The same reasoning as in 7(a) applies, *mutatis mutandis*, to claim 11;
- d) **claim 14** is an apparatus claim corresponding to the apparatus claim 3. The same reasoning as in 7(a) applies, *mutatis mutandis*, to claim 14;

8 INDEPENDENT CLAIM 8

8.1 Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document):

A method for displaying pictures (fig. 11) of a compressed video stream during playback mode operations, said method comprising the steps of:

receiving a compressed video stream (col. 17, lines 5-14; fig. 11, (40)) that includes frame pictures;

detecting a scan mode indicator (col. 17, lines 24-30) in the compressed video stream, wherein the scan mode indicator indicates whether a progressive scan format was used during the creation of the frame pictures, wherein the scan mode indicator includes a flag in a picture sequence header; and

displaying (col. 17, lines 30-41) both interlaced frames of an interlaced frame pair during a playback mode operation if the scan mode indicator detected in the compressed video stream indicates that a progressive scan format was used during the creation of the frame pictures,

From this, the subject-matter of independent claim 8 differs in that:

If the scan mode indicator indicates that a progressive scan format was not used during the creation of the frame pictures displaying only one of two interlaced frames of an interlaced frame pair.

- 8.1.1 The subject-matter of claim 8 is therefore novel (Article 33(2) PCT)

 The problem to be solved by the present invention may be regarded as "how to efficiently display an interlaced picture".
- 8.1.2 The solution to this problem proposed in claim 8 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

Documents D1, D2 and D3 do not disclosed the claimed solution, nor any combination of the teachings therein would not enable the skilled person to arrive to the claimed solution.

9 INDEPENDENT CLAIM 16

9.1 Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document):

Independent apparatus claim 16 is corresponding to the method claim 8. The reasons as put forward in paragraph 8 above apply, *mutatis mutandis*, to claim 16.

Re Item VIII.

- Claims 5 and 8 comprise all the features of claim 1 and are therefore not appropriately formulated as dependent on the latter (Rule 6.4 PCT). Claims 1, 5 and 8 therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.
- 1.1 Notwithstanding, claims 13 and 16 comprise all the features of claim 9 and are therefore not appropriately formulated as dependent on the latter (Rule 6.4 PCT). Claims 9, 13 and 16 therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2005/024706